

# NSLS OHSAS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> J. Aloï, B. Best, J. Burke, B. Clay		<b>Point Value →</b> <b>Parameter ↓</b>	1	2	3	4	5
<b>Job Title:</b> <b>Electrical &amp; Electronic shop Work</b>  <b>Job Number or Job Identifier:</b> <b>LS-JRA-0001</b>		<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description:</b> Assembly of circuit boards, enclosures, mounting hardware, use of hand tools, powered hand tools & bench tools, soldering, wire wrapping, use of circuit board cleaning agents, testing equipment.		<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):		<b>Likelihood (D)</b>	<b>Extremely Unlikely</b> <<1x/20yrs	<b>Unlikely</b> 1x/10-20yrs	<b>Possible</b> >1x/10-20yrs	<b>Probable</b> 1x/yr	<b>Multiple</b> >1x/yr
Approved by: <b>W. R. Casey</b> Date: <b>10/10/05</b> Rev. # <b>1</b> <a href="#">Revision Log</a>							
<b>Stressors (if applicable, please list all):</b> N/A			<b>Reason for Revision (if applicable):</b>			<b>Comments:</b>	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Wire wrapping of circuit board components	Repetitive motion injury, lacerations, abrasions	N	1	4	2	3	24	See <b>LS-JRA-0014</b> ; hand tool use, IH support, Tier 1, adequate task lighting, job rotation, rest breaks	1	4	2	1	8							

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Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Cleaning of circuit boards and components	Chemical exposure (multiple routes of entry)	N	1	4	2	3	24	See <b>LS-JRA-0021</b> ; routine chemical use. CMS, proper PPE, work planning, use of less hazardous chemicals	1	4	2	2	16							
Assembly of electronic enclosures, components & circuit boards	Lacerations, abrasions, strains, sprains, contusions	N	1	4	2	3	24	See <b>LS-JRA-0014</b> ; hand tool use, Tier 1, adequate task lighting, proper PPE	1	4	2	2	16							
Soldering of components and circuit boards	Burns	N	1	4	2	3	24	Proper PPE, proper equipment, adequate illumination for the task, good housekeeping practices, Tier 1	1	4	2	2	16							
	Exposure to fumes	N	1	4	1	3	12	Proper PPE, local exhaust provided, use of lead-free solder	1	4	1	2	8							
	Fire	N	1	4	5	2	40	Fire detection & suppression systems, proper equipment, Tier 1, good housekeeping practices, minimize fire loading	1	4	5	1	20							
Use of non-powered hand tools	Lacerations, abrasions, contusions, strains, struck by flying objects	-	-	-	-	-	-	See <b>LS-JRA-0014</b> ; hand tool use	-	-	-	-	-							

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Use of powered hand tools	Lacerations, abrasions, contusions, struck by flying objects, strains, slips, falls, burns, electrical shock, electrocution	-	-	-	-	-	-	See <b>LS-JRA-0013</b> ; hand-held power tool use	-	-	-	-	-							
Testing of electronic assembly's	Electrocution, electrical shock, arc flash, reflex injury	-	-	-	-	-	-	See <b>LS-JRA-0003</b> ; Troubleshooting energized electrical equipment in range B	-	-	-	-	-							
Further Description of Controls Added to Reduce Risk:																				
*Risk:		0 to 20 Negligible		21 to 40 Acceptable				41 to 60 Moderate		61 to 80 Substantial				81 or greater Intolerable						